

Virginia Title V Operating Permit

Until such time as this permit is reopened and revised, modified, revoked, terminated or expires, the permittee is authorized to operate in accordance with the terms and conditions contained herein. This permit is issued under the authority of Title 10.1, Chapter 13, §10.1-1322 of the Air Pollution Control Law of Virginia. This permit is issued consistent with the Administrative Process Act, and 9 VAC 5-80-50 through 9 VAC 5-80-300 of the State Air Pollution Control Board's Regulations for the Control and Abatement of Air Pollution of the Commonwealth of Virginia.

Authorization to operate a Stationary Source of Air Pollution as described in this permit is hereby granted to:

Permittee Name:	General Shale Products LLC
Facility Name:	General Shale Brick, Plant 37
Facility Location:	8297 Weyburn Road Somerset, Virginia 22972
AIRS ID:	51-137-0001
Permit Number:	FSO40163

November 9, 2001

Effective Date

November 9, 2006

Expiration Date

Dennis H. Treacy

Director, Department of Environmental Quality

Date Signed

Permit Conditions, 26 pages

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I. Facility Information

Permittee

General Shale Products LLC
P. O. Box 3547
Johnson City, Tennessee 37602

Responsible Official

Mr. Dave McNees
Director of Environment and Corporate
Real Estate

Facility

General Shale Products LLC, Plant 37
8297 Weyburn Road
Somerset, Virginia 22972

Contacts

Phillip E. Towles (423) 282-4661
Environmental Specialists

Virginia DEQ Registration Number: 40163

AIRS Identification Number: 51-137-0001

Facility Description: SIC Code 3251 - Face Brick / Structural Manufacture of brick from shale.

The manufacturing process involves mining, grinding, screening, and blending of the raw materials followed by forming, cutting or shaping, drying, firing (or curing), cooling, storage, and shipping of the final product. The raw shale is typically loaded by truck or front-end loader into a receiving hopper and is crushed by an existing primary crusher for initial size reduction. The inherent moisture content of the raw shale ranges from 13 - 15%. The material is then conveyed to an enclosed grinding room, which houses several grinding mills and banks of screens that produce a fine material that is suitable for forming brick. The shale is then conveyed to an enclosed storage area, then used to form bricks in the forming area.

General Shale LLC bricks are formed using a stiff mud extrusion process. The ground raw material is mixed with water and possibly other additives. The material is continuously extruded into soft formed mud. The columns are then treated with various friction or setting materials that apply texture to the surface of the bricks. The columns are cut into soft “green” brick with a wire. The resultant “green” bricks are set on kiln cars.

The “green” or raw bricks loaded on kiln cars are sent to a pre-dryer which utilizes waste heat from the kilns, then to one of three kilns at General Shale. Each of these are tunnel-type kilns fueled by natural gas. Each dryer/kiln includes a preheat zone, a firing zone, and a cooling zone. Firing of the green bricks involves six steps: the evaporation of free water, dehydration, oxidation, vitrification, flashing, and cooling.

General Shale Products LLC is subject to Title V permitting requirements due to its potential to emit more than 10 tons per year hydrogen fluoride.

II. Emission Units

This table is a representation of all regulated equipment at the facility. The table is included as a reference to be used for informational purposes only, and does not include applicable requirements.

Equipment to be operated consists of:

Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
Shale Preparation (01-xx)							
01-01	-	McClanahan 24 x 36 Roll Crusher - 1955	50 tons/hr	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-02	-	American Model 384 Grinder – 1955	50 tons/hr	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-03	-	Incla Grinder – 1955	50 tons/hr	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-04	-	Steadman Cage Mill – 1955	50 tons/hr	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-05	-	(8) 5' x 8' Leahy Screen(s) – 1955	50 tons/hr each	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-06	-	(13) Custom belt conveyors - 1955	50 tons/hr each maximum	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A
01-07	01-07	Bulk Sand Storage Silo and Associated Conveyor - 1999	20,000 lb/hr (10 tons/hr); 100 tons capacity	Bin Vent Fabric Filter CP Model 58BF 016	01	PM/PM ₁₀	January 26, 1999
01-08	-	Receiving Hopper and Distribution Hopper -1955	50 tons/hr each maximum	Wet Material & Enclosure	N/A	PM/PM ₁₀	N/A

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Emission Unit ID	Stack ID	Emission Unit Description	Size/Rated Capacity	Pollution Control Device Description (PCD)	PCD ID	Pollutant Controlled	Applicable Permit Date
02	02	"A" Steele Brick Making & Custom Texturing System - 1965	29 tons/hr	Sand texturing process controlled by Flex-Kleen, 4 RA 64 KD fabric filter . Enclosure in building.	02	PM/PM ₁₀	N/A
03	03	"B" Steele Brick Making & Custom Texturing - 1965	29 tons/hr	Sand texturing process controlled by Pangborn 500N fabric filter. Enclosure in building.	03	PM/PM ₁₀	N/A
04	04A 04B	"A" Dryer/Kiln - Harrop 8-Wide Tunnel Kiln –1965	12.0 tons/hr input 9.75 tons/hr output 26.25 MMBtu/hr	None	N/A	N/A	N/A
05	05A 05B	"B" Dryer/Kiln - Harrop 8-Wide Tunnel Kiln - 1965	12.0 tons/hr input 9.75 tons/hr output 26.25 MMBtu/hr	None	N/A	N/A	N/A
06	06	"C" Dryer /Kiln – Harrop 8-Wide Tunnel Kiln - 1957	12.0 tons/hr input 9.75 tons/hr output 26.25 MMBtu/hr	None	N/A	N/A	N/A
13	13	One Sand Dryer – approximately 1965	0.54 MMBtu/hr natural gas fired. 1.0 tons/hour process rate.	Partial enclosure in a building.	PM	N/A	N/A

III. Process Equipment Requirements – Existing Equipment

Emission Units

- 01-01 - McClanahan 24 X 36 Roll Crusher (50 tons/hr)
- 01-02 - American Model 384 Grinder (50 tons/hr)
- 01-03 - Incla Grinder (50 tons/hr)
- 01-04 –Steadman Cage Mill (50 tons/hr)
- 01-05 - (8) 5' x 8' Leahy Screens (50 tons/hr)
- 01-06 - (13) Custom Conveyors (50 tons/hr)
- 01-08- Receiving Hopper and Distribution Hopper
- 02 - “A” Steele Brick Making and Texturing Machine (29 tons/hr)
- 03 - “B” Steele Brick Making and Texturing Machine (29 tons/hr)
- 04 - “A” Harrop Dryer / Kiln (12.0 tons/hr input, 9.75 tons/hr output, 26.25 MMBtu/hr)
- 05 - “B” Harrop Dryer / Kiln (12.0 tons/hr input, 9.75 tons/hr output, 26.25 MMBtu/hr)
- 06 - “C” Harrop Dryer / Kiln (12.0 tons/hr input, 9.75 tons/hr output, 26.25 MMBtu/hr)
- 13 - Sand Dryer (0.54 MM Btu/hr, 1.0 ton/hour process rate.)

A. Limitations

1. **Fuel** - The approved fuels for the three (3) kilns (Emission Unit ID No. 04, 05, and 06) are natural gas and propane as a backup fuel. The approved fuels for the sand dryer (Emission Unit ID. No. 13) are natural gas and propane. A change in the fuels may require a permit to modify and operate.
(9 VAC 5-80-110)
2. **Control Equipment** - Particulate emissions from the “A” brick making and texturing and “B” brick making and texturing equipment (Emission Unit ID No. 02 and 03) shall be controlled by the use of fabric filters.
(9 VAC 5-80-110)
3. **Existing Source Standard for Particulate Matter for Sand and Gravel Processing Operations and Stone Quarrying and Processing Operations**

No owner or other person shall cause or permit any material to be produced, handled, stockpiled, or transported without taking measures to reduce to a minimum any particulate matter from becoming airborne. Where it is practical to measure the emission, the emission shall not exceed the limits established by Table 4-14 of 9 VAC 5-40-1840. All such airborne particulate matter emanating from the yards, sidings or roads of such operations shall be considered fugitive dust and shall be controlled as stipulated in 9 VAC 5-40-1860 and Article 1 of 9 VAC 5-40-60. All crushers shall be fitted with liquid sprays or other appropriate systems that effectively limit the escape of airborne dust. Vibrating and shaker screens

handling dry materials shall be enclosed in a building. All feeders, elevators, conveyors, transfer points, discharge points and loading points shall be equipped with collectors, sprays or other means when necessary to minimize the escape of dust. This standard is applicable to the following emission units: (Emission Unit ID Nos. 01-01, 01-02, 01-03, 01-04, 01-05, 01-06, 01-08, 13)

Stone/Sand & Gravel Processing particulate emissions based on Table 4-14 of 9 VAC 5-40-1840 are limited to the following:

Emission Unit ID	Description	Rated Capacity	PM / PM10 Limit lb/hr
01-01	McClanahan 24 x 36 Roll Crusher	50 tons/hr	44.6
01-02 and 01-03	American Model 384 Grinder and Incla Grinder	50 tons/hr each	44.6 each
01-04	Steadman Cage Mill	50 tons/hr	44.6
01-05	Eight 5' x 8' Leahy Screens	50 tons/hr each	44.6 each
01-06	13 Custom Belt Conveyors	50 tons/hr each	44.6 each
01-08	Receiving Hopper and Distribution Hopper	50 tons/hr each	44.6 each
13	Sand Dryer	1 ton/hr	4.1

Compliance with the particulate emission standard may be demonstrated using the following equations as applicable: 1) particulate emission rate (lbs/hr) = bricks produced (tons/hr) x particulate emission factor (lbs/ton); or 2) particulate emission rate (lbs/hr) = material processed (tons/hr) x particulate emission factor (lbs/ton). The emission factor for Emission Unit ID 01-01 through 01-05 shall be based on the results of a stack test of this facility or similar facilities, or, if these are not available the appropriate emission factor given in Section 11.3 AP-42 (8/97) may be used. The emission factor for Emission Unit ID 01-06 and 01-08 shall be based on the results of a stack test of this facility or similar facilities, or, if these are not available the appropriate emission factor given in Section 11.19 AP-42 (11/95) may be used. The emission factor for Emission Unit ID 13 shall be based on the results of a stack test of this facility or similar facilities, or, if these are not available the appropriate emission factor given in Section 11.19.1 AP-42 (11/95) may be used. Annual emissions are to be calculated on a rolling consecutive 12-month basis.
(9 VAC 5-80-110 and 9 VAC 5-40-1840)

4. **Existing Source Standard for Particulate Matter (AQCR 1-6) - General Process Operations** - Interpolation of the data in Table 4-4A of 9 VAC 5-40-260 for process weight rates up to 60,000 lb/hr shall be accomplished by use of the following equation: $E = 4.10$

$P^{0.67}$, where E = emission rate in lb/hr, and P = process weight rate in tons/hr. This standard is applicable to the following existing emission units: Emission Unit ID Nos. 02, 03, 04, 05, 06. General Process particulate emissions based on Table 4-4A of 9 VAC 5-40-260 are limited to the following:

Emission Unit ID	Description	Rated Capacity	PM / PM10 Limit lb/hr
02	"A" Brick Making and Texturing equipment	29 tons/hr	39.1
03	"B" Brick Making and Texturing equipment	29 tons/hr	39.1
04	"A" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	12.0 tons/hr input	21.7
05	"B" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	12.0 tons/hr input	21.7
06	"C" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	12.0 tons/hr input	21.7

Compliance with the particulate emission standard may be demonstrated using the following equation: particulate emission rate (lbs/hr) = bricks produced (tons/hr) x particulate emission factor (lbs/ton). The emission factor shall be based on the results of a stack test of this facility or similar facilities, or, if these are not available, the appropriate emission factor given in Table 11.3-2 of AP-42 (8/97) may be used.
(9 VAC 5-80-110 and 9 VAC 5-40-260 C)

5. **Existing Source Standard for Sulfur Dioxide - Combustion Installations** - No owner or other person shall cause or permit to be discharged into the atmosphere from any combustion installation any sulfur dioxide emissions in excess of $2.64K$ where K is the actual heat input at total capacity expressed in millions of Btu per hour. General Process Operations emitting sulfur dioxide are limited to the following based on 9 VAC 5-40-280.B:

Emission Unit ID	Description	Rated Capacity	SO ₂ limit lb/hr
04	"A" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	26.25 MMBtu/hr	69.3
05	"B" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	26.25 MMBtu/hr	69.3
06	"C" Dryer / Kiln – Harrop 8-Wide Tunnel Kiln	26.25 MMBtu/hr	69.3

Compliance with the sulfur dioxide emission standard may be demonstrated by demonstrating compliance with the fuel usage requirements as stated in Condition III.A.1 of this permit, and by record keeping of monthly and annual brick (tons mass) production in each kiln, and by using the following equation: sulfur dioxide emission rate (lbs/hr) = bricks produced (tons/time) x sulfur dioxide emission factor (lbs/ton). The emission factor shall be based on the results of stack test of this facility or similar facilities, or, if these are not available, the appropriate emission factor given in Table 11.3-3 of AP-42 (8/97) may be used. Annual emissions are to be calculated monthly as the sum of each consecutive 12-month period. This standard is applicable to the following emission units: "A", "B", and "C" Harrop Dryer/Kilns (Emission Unit ID Nos. 04, 05, and 06).
(9 VAC 5-80-110 and 9 VAC 5-40-280 B)

6. **Existing Source Standard for Visible Emissions** - Unless otherwise specified in this part, no owner or other person shall cause or permit to be discharged into the atmosphere from any affected facility any visible emissions which exhibit greater than 20% opacity, except for one six-minute period in any one hour of not more than 60% opacity. Failure to meet the requirements of this section because of the presence of water vapor shall not be a violation of this section. This standard is applicable to the following emission units: "A" and "B" Brick Making Machines & Texturing equipment (Emission Unit ID Nos. 02, 03), "A", "B", and "C" Harrop Dryer/Kiln exhaust stacks (Emission Unit ID No. 04, 05, and 06).
(9 VAC 5-80-110 and 9 VAC 5-40-80)
7. **Operation and Maintenance** - Emissions from existing sources shall be controlled by proper operation and maintenance. Operators shall be trained in the proper operation of all such equipment. Training shall consist of a review and familiarization of the manufacturer's operating instructions, at minimum. This standard is applicable to the following emission units: McClanahan Roll Crusher (Emission Unit ID No. 01-01), American Model 384 Grinder and Incla Grinder (Emission Unit ID No. 01-02 and 01-03), Steadman Cage Mill (Emission Unit ID 01-04), existing screens (Emission Unit ID No. 01-05), existing conveyors (Emission Unit ID No. 01-06), receiving hopper and distribution hopper (Emission Unit ID No. 01-08), "A" and "B" Brick Making Machine & Texture equipment (Emission Unit ID Nos. 02, 03), "A", "B", and "C" dryer/kiln exhaust stacks (Emission Unit ID No. 04, 05, and 06), sand dryer (Emission Unit ID No. 13).
(9 VAC 5-80-110)
8. **Existing Source Standard for Sand Dryer** – The sand dryer (Emission Unit ID No. 13) shall be operated inside an enclosure or similar structure with three or more sides and a roof.
(9 VAC 5-80-110 and 9 VAC 5-40-1840)

B. Monitoring and Record keeping

1. **Control Equipment** - The fabric filters controlling the brick making and texturing equipment (Emission Unit ID No. 02 and 03) shall be equipped with a device to continuously measure the differential pressure drop across the fabric filter. The device shall be constructed in an accessible location and shall be maintained by the permittee such that it is in proper working order. The pressure drop monitoring device shall be observed weekly.
(9 VAC 5-80-110)
2. **Data** - The permittee shall monitor and maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the Virginia Department of Environmental Quality (DEQ), Fredericksburg Office. These records shall include, but are not limited to:
 - a. The annual throughput of shale, calculated monthly as the sum of each consecutive twelve (12) month period.
 - b. The equation from Condition III.A.3, the pollutant-specific emission factor, and the source of the emission factor used in the monthly calculation of actual emissions for each emission unit identified in Condition III.A.3;
 - c. The annual usage of natural gas and/or propane fuel for each kiln, calculated monthly as the sum of each consecutive twelve (12) month period.
 - d. The equation from Condition III.A.4, the pollutant-specific emission factor, and the source of the emission factor used in the monthly calculation of actual emissions for each emission unit identified in Condition III.A.4;
 - e. The annual production of brick for each kiln, calculated monthly as the sum of each consecutive twelve (12) month period.
 - f. The equation from Condition III.A.5, the pollutant-specific emission factor, and the source of the emission factor used in the monthly calculation of actual emissions for each emission unit identified in Condition III.A.5;
 - g. The annual mass (tons) of sand dried. The annual tons of sand dried shall be calculated monthly as the sum of each consecutive twelve (12) month period. The equation from Condition III.A.3, the pollutant-specific emission factor, and the source of the emission factor used in the monthly calculation of actual emissions for each emission unit identified in Conditions III.A.3;
 - h. Weekly records of the differential pressure across the fabric filters controlling emissions generated by the brick making and texturing equipment (Emission Unit ID No. 02 and 03).

These records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-80-110)

3. **Training – Operation & Maintenance** - The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the three (3) kilns. An operation and maintenance plan shall be submitted by the permittee within six months of issuance of this permit for review by the DEQ. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ. (9 VAC 5-80-110)

C. Testing

1. **Ports and Methods** - Upon request from the DEQ, test ports will be provided at the appropriate locations. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use test methods in accordance with procedures approved by the DEQ.
(9 VAC 5-40-30 and 9 VAC 5-80-110)

D. Reporting

1. The reporting requirements for this section are satisfied by the monitoring and record keeping requirements in this section, by the General Conditions, and by in the Facility-Wide Conditions.

IV. Process Equipment Requirements - New / Modified Equipment

01-07 - Bulk Sand/Material Storage Silo (10 tons/hr, 100 ton capacity)

A. Limitations

1. **Emissions Control** – Particulate emissions from the bulk sand storage silo (Emission Unit ID No. 01-07) shall be controlled by a fabric filter. The fabric filter shall be provided with adequate access for inspection.
(9 VAC 5-80-110, 9 VAC 5-50-260, 9 VAC 5-80-10 H, and Condition 3 of January 26, 1999, Permit)
2. **Emission Control** - Particulate emissions from the conveyor associated with the bulk sand

storage silo (Emission Unit ID No. 01-07) shall be controlled by covering the portion of the conveyor exposed to outdoor ambient air.

(9 VAC 5-80-110, 9 C 5-50-260, 9 VAC 5-80-10 H, and Condition 4 of January 26, 1999, Permit)

3. **Visible Emission Limit** - Visible emissions from the bulk sand storage silo (Emission Unit ID No. 01-07) and the covered conveyor shall not exceed ten percent (10%) opacity.
(9 VAC 5-80-110, 9 VAC 5-50-80, 9 VAC 5-50-260, 9 VAC 5-50-410, Condition 5 of January 26, 1999 Permit, and section 60.672 (b) of 40 CFR 60, Subpart OOO)
4. **Pollution Control Device Failure** – If any phase of the air pollution control technique becomes non-operational for more than one (1) hour, resulting in a violation of any emission limitation condition contained in this section of the permit, the permittee shall cease the affected operation(s) as expeditiously as possible with consideration for employee safety and damage to equipment. The DEQ, Fredericksburg Office shall be notified within four (4) business hours of the occurrence. In addition, the owner shall provide a written statement, within fourteen (14) days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shut down.
(9 VAC 5-80-110, 9 VAC 5-20-180C, and Condition 12 of January 26, 1999, Permit)
5. **Requirements by Reference** - Except where this permit is more restrictive than the applicable requirement, the permittee shall operate the bulk sand storage silo and associated conveyor in accordance with the applicable sections of the New Source Performance Standards (NSPS) of 40 CFR 60, Subpart OOO. This standard is applicable to the Bulk Sand Storage Silo (Emission Unit ID No. 01-07).
(9 VAC 5-50-400, 9 VAC 5-50-410, 9 VAC 5-80-110 and Condition 7 of January 26, 1999, Permit)

B. Monitoring and Record keeping

1. **Data** - The permittee shall maintain records of all emission data and operating parameters necessary to demonstrate compliance with this permit. The content and format of such records shall be arranged with the DEQ, Fredericksburg Office. The records shall include, but are not limited to the annual throughput of sand through the bulk sand storage silo, calculated monthly as the sum of each consecutive twelve (12) month period. The records shall be available on site for inspection by the DEQ and shall be current for the most recent five (5) years.
(9 VAC 5-50-50, 9 VAC 5-80-110 and Condition 9 of January 26, 1999, Permit)
2. **Training** - The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the bulk sand storage silo. These

procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ. (9 VAC 5-80-110)

C. Testing

1. **Ports / Methods** - Upon request from the DEQ, test ports will be provided at the appropriate locations. If testing is conducted in addition to the monitoring specified in this permit, the permittee shall use test methods in accordance with procedures approved by the DEQ.
(9 VAC 5-50-30 and 9 VAC 5-80-110)

D. Reporting

1. The reporting requirements for this section are satisfied by the monitoring and record keeping requirements in this section, by the General Conditions, and by the Facility-Wide Conditions.

V. Facility Wide Conditions

A. Limitations

1. **Fugitive Dust From New and Modified Sources-** Unless otherwise specified, dust emission controls shall include the following or equivalent as a minimum:
 - a. Dust from drills, shot piles, material handling, screens, crushers, load-outs and traffic areas shall be controlled by wet suppression or equivalent as approved by the DEQ. There shall be no exemption from this requirement due to cold weather. The wet suppression spray systems shall be operated at optimum design.
 - b. All material being stockpiled shall be kept moist to control dust during storage and handling or covered at all times to minimize emissions.
 - c. Haul roads shall be controlled by wet suppression.
 - d. Reasonable precautions shall be taken to prevent deposition of dirt on public roads and subsequent dust emissions. Dirt spilled or tracked onto paved surfaces shall be promptly removed to prevent particulate matter from becoming airborne.

(9 VAC 5-80-10 H, 9 VAC 5-50-90, and 9 VAC 5-80-110)

B. Monitoring and Record keeping

1. **Visible Emissions** - Each emission unit with a visible emission requirement in this permit shall be observed visually at least once each calendar week in which the emission unit operates. The visual observations shall be conducted using 40 CFR 60 Appendix A Method 22 techniques (condensed water vapor/steam is not a visible emission) for at least a brief time only to identify the presence of visible emissions. Each emission unit in the observation having visible emissions shall be evaluated by conducting a 40 CFR 60 Appendix A Method 9 visible emissions evaluation (VEE) for at least six (6) minutes, unless corrective action is taken that achieves no visible emissions. 40 CFR 60 Appendix A Method 9 requires the observer to have a Method 9 certification that is current at the time of the VEE. If any of these six (6) minute VEE averages exceed the unit's opacity limitation, a VEE shall be conducted on the emission unit for at least three (3) six-minute periods (at least 18 minutes). All visible emission observations, VEE results, and corrective actions taken shall be recorded.
(9 VAC 5-80-110 E)
2. **Maintenance/Operating Procedures** - In order to minimize the duration and frequency of excess emissions due to malfunctions of process equipment or air pollution control equipment, the permittee shall:
 - a. Develop a maintenance schedule and maintain records of all scheduled and non-scheduled maintenance (including air pollution control equipment). These records shall be maintained on site for a period of five (5) years and shall be made available to DEQ personnel upon request.
 - b. Maintain an inventory of spare parts that are needed to minimize the duration of air pollution control equipment breakdowns.(9 VAC 5-80-110 and Condition 13 of January 26, 1999, Permit)
3. **Monitoring Information** - All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.

- f. The operating conditions existing at the time of sampling or measurement.
(9 VAC 5-80-110 F)

C. Testing

1. Testing requirements have been addressed in individual source category sections of this permit as well as in Section IX - General Conditions.

D. Reporting

1. The reporting requirements for this section are satisfied by the monitoring and record keeping requirements in this section, by the General Conditions, and by the Facility-Wide Conditions. Plant wide reporting conditions also contained in Section IX - General Conditions of this permit.

VI. Insignificant Emission Units

1. The following emission units at the facility are identified in the application as insignificant emission units under 9 VAC 5-80-720:

Emission Unit No.	Emission Unit Description	Citation	Pollutant(s) Emitted (5-80-720 B)	Rated Capacity (5-80-720 C)
11	Raw Material Storage Piles	5-80-720 B	PM ₁₀	N/A
12	Sand Mixer, Weigh Hopper, and Associated Conveyor	5-80-720 B	PM ₁₀	N/A
14	One Kiln Car Vacuum Cleaner	5-80-720 B	PM ₁₀	N/A
15	Diesel Fuel Storage Tank	5-80-720 B	VOC	10,000 Gallon
16	Oil (Lubricating) Tank	5-80-720 B	VOC	6,000 Gallon
17	Texture Sand Processing	5-80-720 B	PM ₁₀	5 ton/hr
18	Three 30,000 gallon LPG pressurized tanks	5-80-720 B	PM ₁₀	N/A

These emission units are presumed to be in compliance with all requirements. Based on this presumption, no monitoring, record keeping, or reporting shall be required for these emission units.

VII. Compliance Plan

1. This facility is currently in compliance with all current requirements. The requirement for an operation and maintenance plan for the existing facilities is new under the Title V program. As stated in III.B.3, General Shale would like the opportunity to make available to DEQ the operation and maintenance plan for review. The following language was added to this Condition for the existing Kilns:

“Training – Operation & Maintenance - The permittee shall maintain records of the required training including a statement of time, place and nature of training provided. The permittee shall have available good written operating procedures and a maintenance schedule for the three (3) kilns. An operation and maintenance plan shall be submitted by the permittee within six months of issuance of this permit for review by the Virginia DEQ. These procedures shall be based on the manufacturer's recommendations, at minimum. All records required by this condition shall be kept on site and made available for inspection by the DEQ.
(9 VAC 5-80-110)

VIII. Permit Shield & Inapplicable Requirements

1. Compliance with the provisions of this permit shall be deemed compliant with all applicable requirements in effect as of the permit issuance date as identified in this permit. This permit shield covers only those applicable requirements covered by terms and conditions in this permit and the following requirements which have been specifically identified as being not applicable to this permitted facility:

Citation	Title of Citation	Description of Applicability
40 CFR Part 60, Subpart 000	Standards of Performance for Nonmetallic Minerals Processing Plants	This rule applies to the bulk sand storage silo (Emission Unit ID No. 01-07) only. The rule establishes particulate and opacity standards for affected units constructed, reconstructed, or modified after August 31, 1983. The remainder of the equipment at General Shale Brick Plant 37 (Emission Unit ID No. 01-01 through 01-08, excluding Emission Unit ID No. 01-07) has been in operation since 1955, and no modification or reconstruction has occurred.
40 CFR Part 60, Subpart Kb	Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage) for Which Construction, Reconstruction, or Modification Commenced after July 23, 1984	The rule establishes standards for VOC emissions from affected storage tanks with a storage capacity equal to or greater than 40 cubic meters. Section 60.110b(d)(2) specifies that Subpart Kb does not apply to pressure vessels designed to operate in excess of 204.9 kPa and without emissions to the atmosphere. The LPG storage tanks

Citation	Title of Citation	Description of Applicability
		(Emission Unit ID No. 18) at the General Shale Brick Plant 37 are designed to hold LPG, which has a vapor pressure greater than 204.9 kPa. Therefore this rule does not apply.
40 CFR 60 Subpart UUU (40 CFR 60.730 through 60.737)	Standards of Performance for Calciners and Dryers in Mineral Industries	The regulation applies to an affected facility (dryer) constructed, modified or reconstructed after April 23, 1986 (40 CFR 60.730 (c)). Subpart UUU does not apply to the sand dryer (Emission Unit ID No. 13) since the dryer was constructed prior to the specified date. NOTE: Subpart UUU may apply to the dryer should the dryer be modified or reconstructed in the future.

Nothing in this permit shield shall alter the provisions of ' 303 of the federal Clean Air Act, including the authority of the administrator under that section, the liability of the owner for any violation of applicable requirements prior to or at the time of permit issuance, or the ability to obtain information by the administrator pursuant to ' 114 of the federal Clean Air Act, (ii) the Board pursuant to ' 10.1-1314 or ' 10.1-1315 of the Virginia Air Pollution Control Law or (iii) the DEQ pursuant to ' 10.1-1307.3 of the Virginia Air Pollution Control Law.
(9 VAC 5-80-140)

IX. General Conditions

A. Federal Enforceability

All terms and conditions in this permit are enforceable by the administrator and citizens under the federal Clean Air Act, except those that have been designated as only state-enforceable.
(9 VAC 5-80-110 N)

B. Permit Expiration

1. This permit has a fixed term of five years. The expiration date shall be the date five years from the date of issuance. Unless a timely and complete renewal application consistent, with 9 VAC 5-80-80, has been submitted, to the DEQ, by the owner, the right of the facility to operate shall be terminated upon permit expiration.
 - a. The owner shall submit an application for renewal at least six months but no earlier than eighteen months prior to the date of permit expiration.
 - b. If an applicant submits a timely and complete application for an initial permit or renewal

under this section, the failure of the source to have a permit or the operation of the source without a permit shall not be a violation of Article 1, Part II of 9 VAC 5 Chapter 80, until the Board takes final action on the application under 9 VAC 5-80-150.

- c. No source shall operate after the time that it is required to submit a timely and complete application under subsections C and D of 9 VAC 5-80-80 for a renewal permit, except in compliance with a permit issued under Article 1, Part II of 9 VAC 5 Chapter 80.
- d. If an applicant submits a timely and complete application under section 9 VAC 5-80-80 for a permit renewal but the Board fails to issue or deny the renewal permit before the end of the term of the previous permit, (i) the previous permit shall not expire until the renewal permit has been issued or denied and (ii) all the terms and conditions of the previous permit, including any permit shield granted pursuant to 9 VAC 5-80-140, shall remain in effect from the date the application is determined to be complete until the renewal permit is issued or denied.
- e. The protection under subsections F 1 and F 5 (ii) of section 9 VAC 5-80-80 F shall cease to apply if, subsequent to the completeness determination made pursuant section 9 VAC 5-80-80 D, the applicant fails to submit by the deadline specified in writing by the Board any additional information identified as being needed to process the application.

(9 VAC 5-80-80 B, C and F, 9 VAC 5-80-110 D and 9 VAC 5-80-170 B)

C. Record keeping and Reporting

- 1. All records of monitoring information maintained to demonstrate compliance with the terms and conditions of this permit shall contain, where applicable, the following:
 - a. The date, place as defined in the permit, and time of sampling or measurements.
 - b. The date(s) analyses were performed.
 - c. The company or entity that performed the analyses.
 - d. The analytical techniques or methods used.
 - e. The results of such analyses.
 - f. The operating conditions existing at the time of sampling or measurement.

(9 VAC 5-80-110 F)

2. Records of all monitoring data and support information shall be retained for at least five years from the date of the monitoring sample, measurement, report, or application. Support information includes all calibration and maintenance records, all original strip-chart recordings for continuous monitoring instrumentation, and copies of all reports required by the permit.
(9 VAC 5-80-110 F)
3. The permittee shall submit the results of monitoring contained in any applicable requirement to DEQ no later than March 1 and September 1 of each calendar year. This report must be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the report. The time periods to be addressed are January 1 to June 30 and July 1 to December 31.
 - b. All deviations from permit requirements. For purposes of this permit, deviations include, but are not limited to:
 - (1) exceedance of emissions limitations or operational restrictions;
 - (2) excursions from control device operating parameter requirements, as documented by continuous emission monitoring, periodic monitoring, or compliance assurance monitoring which indicates an exceedance of emission limitations or operational restrictions; or
 - (3) failure to meet monitoring, record keeping, or reporting requirements contained in this permit.

(9 VAC 5-80-110 F)

 - c. For each opacity limit exceedance or malfunction as prescribed by 40 CFR 60 Subpart OOO, the report shall include for each period of excess emissions the commencement and completion dates and times, and the magnitude of excess emissions. Specifically identify each period of excess emissions that occurs during startups, shutdowns, malfunctions, and the cause of any malfunction (if known) and the corrective action and preventative measures taken.
 - d. The weekly records required for the visible emissions observations utilizing 40 CFR 60 Appendix A, Method 22 techniques shall consist of a written log of dates, times, sources, and result of each visible emission observation, as well as records of the person or persons performing the periodic observations. These records shall be retained on site for the most recent five (5) year period and made available to the DEQ upon request.

- e. Report recipients: The semi-annual reports required by this Title V operating permit shall be sent to the DEQ, Fredericksburg Office. The reports required by 40 CFR 60.676 et seq. and 40 CFR 60.676(f) of NSPS Subpart OOO for the bulk sand storage silo and associated conveyor (Emission Unit ID No. 01-07) shall be sent to: the DEQ, Fredericksburg Office, and unless directed otherwise, to EPA. The reports for EPA should be sent to the following address:

Chief
Air Enforcement Branch (3AP13)
U. S. Environmental Protection Agency
Region III
1650 Arch Street
Philadelphia, PA 19103

(9 VAC 5-80-110 F, 9 VAC 5-50-360, 9 VAC 5-50-50, 9 VAC 5-50-410, 40 CFR 60.676 Subpart OOO)

D. Annual Compliance Certification

1. Exclusive of any reporting required to assure compliance with the terms and conditions of this permit or as part of a schedule of compliance contained in this permit, the permittee shall submit to EPA and DEQ no later than **March 1** each calendar year a certification of compliance with all terms and conditions of this permit including emission limitation standards or work practices. The compliance certification shall comply with such additional requirements that may be specified pursuant to §114(a)(3) and §504(b) of the federal Clean Air Act. This certification shall be signed by a responsible official, consistent with 9 VAC 5-80-80 G, and shall include:
 - a. The time period included in the certification. The time period to be addressed is January 1 to December 31.
 - b. The identification of each term or condition of the permit that is the basis of the certification.
 - c. The identification of the methods or other means used by the owner or operator for determining the compliance status with each term and condition during the certification period, and whether such methods or other means provide continuous or intermittent data. Such methods and other means shall include, at a minimum, the methods and means required under this permit. If necessary, the owner or operator shall also identify any other material information that must be included in the certification to comply with section 113(c) of the federal Clean Air Act, which prohibits knowingly making a false certification or omitting material information.

- d. The status of compliance with the terms and conditions of the permit for the period covered by the certification, based on the method or means designated in Condition D.1.c (above) of this permit section. The certification shall identify each deviation and take it into account in the compliance certification. The certification shall also identify as possible exceptions to compliance any periods during which compliance is required and in which an excursion or exceedance as defined under 40 CFR Part 64 occurred.
- e. Such other facts as the permit may require to determine the compliance status of the source.

One copy of the annual compliance certification shall be sent to EPA at the following address:

Clean Air Act Title V Compliance Certification (3AP00)
U.S. Environmental Protection Agency, Region III
1650 Arch Street
Philadelphia, PA 19103-2029.

(9 VAC 5-80-110 K.5)

E. Permit Deviation Reporting

The permittee shall report by the next business day any deviations from permit requirements or any excess emissions, including those attributable to upset conditions as defined in this permit, the probable cause of such deviations, and any corrective actions or preventive measures taken.

(9 VAC 5-80-110 F.2)

F. Failure/Malfunction Reporting

If, for any reason, the affected facilities or related air pollution control equipment fails or malfunctions and may cause excess emissions for more than one hour, the owner shall notify the DEQ, Fredericksburg Office, within four (4) daytime business hours of the occurrence. In addition, the owner shall provide a written statement, within 14 days, explaining the problem, corrective action taken, and the estimated duration of the breakdown/shutdown.

(9 VAC 5-20-180 and Condition 12 of January 26, 1999, Permit)

G. Severability

The terms of this permit are severable. If any condition, requirement or portion of the permit is held invalid or inapplicable under any circumstance, such invalidity or inapplicability shall not

affect or impair the remaining conditions, requirements, or portions of the permit.
(9 VAC 5-80-110 G.1)

H. Duty to Comply

The permittee shall comply with all terms and conditions of this permit. Any permit noncompliance constitutes a violation of the federal Clean Air Act or the Virginia Air Pollution Control Law or both and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application.
(9 VAC 5-80-110 G.2)

I. Need to Halt or Reduce Activity not a Defense

It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
(9 VAC 5-80-110 G.3)

J. Permit Action for Cause

1. This permit may be modified, revoked, reopened, and reissued, or terminated for cause as specified in 9 VAC 5-80-110 L, 9 VAC 5-80-240 and 9 VAC 5-80-260. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
(9 VAC 5-80-110 G.4)
2. Such changes that may require a permit modification and/or revisions include, but are not limited to, the following:
 - a. Erection, fabrication, installation, addition, or modification of an emissions unit (which is the source, or part of it, which emits or has the potential to emit any regulated air pollutant), or of a source, where there is, or there is the potential of, a resulting emissions increase;
 - b. Reconstruction or replacement of any emissions unit or components thereof such that its capital cost exceeds 50% of the cost of a whole new unit;
 - c. Any change at a source which causes emission of a pollutant not previously emitted, an increase in emissions, production, throughput, hours of operation, or fuel use greater than those allowed by the permit, or by 9 VAC 5-80-11, unless such an increase is authorized by an emission cap; or any change at a source which causes an increase in emissions

resulting from a reduction in control efficiency, unless such an increase is authorized by an emissions cap;

- d. Any reduction of the height of a stack or of a point of emissions, or the addition of any obstruction which hinders the vertical motion of exhaust;
- e. Any change at the source which affects its compliance with conditions in this permit, including conditions relating to monitoring, record keeping, and reporting;
- f. Addition of an emissions unit which qualifies as insignificant by emissions rate (9 VAC 5-80-720 B) or by size or production rate (9 VAC 5-80-720 C);
- g. Any change in insignificant activities, as defined by 9 VAC 5-80-90 D.1.a(1) and by 9 VAC 5-80-720 B and 9 VAC 5-80-720 C.
(9 VAC 5-80-110 G, 9 VAC 5-80-110 J, 9 VAC 5-80-240, 9 VAC 5-80-260, 9 VAC 5-80-10, and Condition 10 of January 26, 1999, Permit)

K. Property Rights

The permit does not convey any property rights of any sort, or any exclusive privilege.
(9 VAC 5-80-110 G.5)

L. Duty to Submit Information

- 1. The permittee shall furnish to the board, within a reasonable time, any information that the board may request in writing to determine whether cause exists for modifying, revoking and reissuing, or terminating the permit or to determine compliance with the permit. Upon request, the permittee shall also furnish to the board copies of records required to be kept by the permit and, for information claimed to be confidential, the permittee shall furnish such records to the board along with a claim of confidentiality.
(9 VAC 5-80-110 G.6 9 VAC 5-20-160 an Condition 16 of January 26, 1999, Permit)
- 2. Any document (including reports) required in a permit condition to be submitted to the board shall contain a certification by a responsible official that meets the requirements of 9 VAC 5-80-80 G.
(9 VAC 5-80-110 K.1)

M. Duty to Pay Permit Fees

The owner of any source for which a permit under 9 VAC 5-80-50 through 9 VAC 5-80-300 was issued shall pay permit fees consistent with the requirements of 9 VAC 5-80-310 through 9 VAC 5-80-350.

(9 VAC 5-80-110 H)

N. Fugitive Dust Emission Standards

1. During the operation of a stationary source or any other building, structure, facility or installation, no owner or other person shall cause or permit any materials or property to be handled, transported, stored, used, constructed, altered, repaired or demolished without taking reasonable precautions to prevent particulate matter from becoming airborne. Such reasonable precautions may include, but are not limited to the following:
 - a. Use, where possible, of water or chemicals for control of dust in the demolition of existing buildings or structures, construction operations, the grading of roads or the clearing of land.
 - b. Application of asphalt, oil, water or suitable chemicals on dirt roads, materials stockpiles and other surfaces which may create airborne dust; the paving of roadways and maintaining them in a clean condition.
 - c. Installation and use of hoods, fans and fabric filters to enclose and vent the handling of dusty materials. Adequate containment methods shall be employed during sandblasting or other similar operations.
 - d. Open equipment for conveying or transporting materials likely to create objectionable air pollution when airborne shall be covered or treated in an equally effective manner at all times when in motion.
 - e. The prompt removal of spilled or tracked dirt or other materials from paved streets and of dried sediments resulting from soil erosion.

(9 VAC 5-40-90, and 9 VAC 5-80-110)

O. Startup, Shutdown, and Malfunction

At all times, including periods of startup, shutdown, soot blowing, and malfunction, owners shall, to the extent practicable, maintain and operate any affected facility including associated air pollution control equipment in a manner consistent with air pollution control practices for minimizing emissions. Determination of whether acceptable operating and maintenance procedures are being used will be based on information available to the board, which may include, but is not limited to, monitoring results, opacity observations, review of operating and maintenance procedures, and inspection of the source.

(9 VAC 5-50-20)

P. Alternative Operating Scenarios

Contemporaneously with making a change between reasonably anticipated operating scenarios identified in this permit, the permittee shall record in a log at the permitted facility a record of the scenario under which it is operating. The permit shield described in 9 VAC 5-80-140 shall extend to all terms and conditions under each such operating scenario. The terms and conditions of each such alternative scenario shall meet all applicable requirements including the requirements of 9 VAC 5 Chapter 80 Article 1.
(9 VAC 5-80-110 J)

Q. Inspection and Entry Requirements

1. The permittee shall allow DEQ, upon presentation of credentials and other documents as may be required by law, to perform the following:
 - a. Enter upon the premises where the source is located or emissions-related activity is conducted, or where records must be kept under the terms and conditions of the permit.
 - b. Have access to and copy, at reasonable times, any records that must be kept under the terms and conditions of the permit.
 - c. Inspect at reasonable times any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under the permit.
 - d. Sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

(9 VAC 5-80-110 K.2 and Condition 11 of January 26, 1999, Permit)

R. Reopening For Cause

1. The permit shall be reopened by the board if additional federal requirements become applicable to a major source with a remaining permit term of three or more years. Such a reopening shall be completed not later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the date on which the permit is due to expire, unless the original permit or any of its terms and conditions has been extended pursuant to 9 VAC 5-80-80 F.
 - a. The permit shall be reopened if the board or the administrator determines that the permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of the permit.

- b. The permit shall be reopened if the administrator or the board determines that the permit must be revised or revoked to assure compliance with the applicable requirements.
 - c. The permit shall not be reopened by the board if additional applicable state requirements become applicable to a major source prior to the expiration date established under 9 VAC 5-80-110 D.
- (9 VAC 5-80-110 L)

S. Permit Availability

Within five days after receipt of the issued permit, the permittee shall maintain the permit on the premises for which the permit has been issued and shall make the permit immediately available to DEQ upon request.
(9 VAC 5-80-150 E and Condition 17 of the January 26, 1999, Permit)

T. Transfer of Permits

- 1. No person shall transfer a permit from one location to another, unless authorized under 9 VAC 5-80-130, or from one piece of equipment to another.
(9 VAC 5-80-160)
- 2. In the case of a transfer of ownership of a stationary source, the new owner shall comply with any current permit issued to the previous owner. The new owner shall notify the board of the change in ownership within 30 days of the transfer and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
- 3. In the case of a name change of a stationary source, the owner shall comply with any current permit issued under the previous source name. The owner shall notify the board of the change in source name within 30 days of the name change and shall comply with the requirements of 9 VAC 5-80-200.
(9 VAC 5-80-160)
- 4. In the event of any change in control of ownership of the permitted source, the permittee shall notify the succeeding owner of the existence of this permit by letter and send a copy of that letter to the DEQ, Fredericksburg Office.
(9 VAC 5-80-110, 9 VAC 5-171-160, and Condition 15 of the January 26, 1999, Permit)

U. Malfunction as an Affirmative Defense

1. A malfunction constitutes an affirmative defense to an action brought for noncompliance with technology-based emission limitations if the conditions of paragraph 2 are met.
2. The affirmative defense of malfunction shall be demonstrated by the permittee through properly signed, contemporaneous operating logs, or other relevant evidence that show the following:
 - a. A malfunction occurred and the permittee can identify the cause or causes of the malfunction.
 - b. The permitted facility was at the time being properly operated.
 - c. During the period of the malfunction the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards, or other requirements in the permit.
 - d. The permittee notified the board of the malfunction within two working days following the time when the emissions limitations were exceeded due to the malfunction. This notification shall include a description of the malfunction, any steps taken to mitigate emissions, and corrective actions taken. The notification may be delivered either orally or in writing. The notification may be delivered by electronic mail, facsimile transmission, telephone, telegraph, or any other method that allows the permittee to comply with the deadline. The notice fulfills the requirement of 9 VAC 5-80-110 F.2.b to promptly report deviations from permit requirements. This notification does not release the permittee from the malfunction reporting requirements under 9 VAC 5-20-180 C.
3. In any enforcement proceeding, the permittee seeking to establish the occurrence of a malfunction shall have the burden of proof. The provisions of this section are in addition to any malfunction, emergency or upset provision contained in any requirement applicable to the source.
(9 VAC 5-80-250)

V. Permit Revocation or Termination for Cause

A permit may be revoked or terminated prior to its expiration date if the owner knowingly makes material misstatements in the permit application or any amendments thereto or if the permittee violates, fails, neglects or refuses to comply with the terms or conditions of the permit, any applicable requirements, or the applicable provisions of 9 VAC 5 Chapter 80 Article 1. The board may suspend, under such conditions and for such period of time as the board may prescribe any permit for any of the grounds for revocation or termination or for any

other violations of these regulations.

(9 VAC 5-80-260, 9 VAC 5-80-10 and Condition 10 of the January 26, 1999, Permit)

W. Duty to Supplement or Correct Application

Any applicant who fails to submit any relevant facts or who has submitted incorrect information in a permit application shall, upon becoming aware of such failure or incorrect submittal, promptly submit such supplementary facts or corrections. An applicant shall also provide additional information as necessary to address any requirements that become applicable to the source after the date a complete application was filed but prior to release of a draft permit.

(9 VAC 5-80-80 E)

X. Stratospheric Ozone Protection

If the permittee handles or emits one or more Class I or II substance subject to a standard promulgated under or established by Title VI (Stratospheric Ozone Protection) of the federal Clean Air Act, the permittee shall comply with all applicable sections of 40 CFR Part 82, Subparts A to F.

(40 CFR Part 82, Subparts A - F)

Y. Accidental Release Prevention

If the permittee has more, or will have more than a threshold quantity of a regulated substance in a process, as determined under 40 CFR 68.115, the permittee shall comply with the requirements of 40 CFR Part 68.

(40 CFR Part 68)

Z. Changes to Permits for Emissions Trading - Not Applicable

AA. Emissions Trading - Not Applicable

**X. State-Only Enforceable Requirements
Not Applicable**